PCT

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International Application No.	
International Filing Date	
Name of receiving Office and "PCT Internation	al Application"

	mieriational Application	n No.	
REQUEST			
	International Filing Da	te	
The second second day the second			
The undersigned requests that the present international application be processed			
according to the Patent Cooperation Treaty.	Name of receiving Off	ice and "PCT International Application"	
	Applicant's or agent's (if desired) (12 characte		
Box No. I TITLE OF INVENTION			
FUNCTIONAL MOLECULAR ELEMENT A	ND FUNCTIONAL MOLECU	LAR DEVICE	
Box No. II APPLICANT	This person is also inventor		
Name and address: (Family name followed by given name; for The address must include postal code and name of country. The Box is the applicant's State (that is, country) of residence if no Sta	country of the address indicated in this	Telephone No. 03-5448-2111	
SONY CORPORATION 7-35, Kitashinagawa 6-cho		Facsimile No. 03-5448-2244	
Shinagawa-ku, TOKYO 141-0		Teleprinter No.	
		Applicant's registration No. with the Office	
State (that is, country) of nationality: JAPAN	State (that is, country	y) of residence: JAPAN	
This person is applicant all designated for the purposes of:	all designated States except the United States of America	the United States of America only the States indicated in the Supplemental Box	
Box No. III FURTHER APPLICANT(S) AND/O	OR (FURTHER) INVENTOR(S)		
Name and address: (Family name followed by given name;) The address must include postal code and name of country. The Box is the applicant's State (that is, country) of residence if no St SONY INTERNATIONAL (EUROPE) Kemperplatz 1, 10785 Berlin (ve country of the address indicated in this ate of residence is indicated below.) G.m.b.H.	This person is: V applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office	
State (that is, country) of nationality:	State (that is, country	y) of residence:	
GERMANY		GERMANY	
This person is applicant all designated of the purposes of:	all designated States except the United States of America	the United States of America only the States indicated in the Supplemental Box	
V Further applicants and/or (further) inventors are	e indicated on a continuation sheet	<u>.</u>	
Box No. IV AGENT OR COMMON REPRESE	ENTATIVE; OR ADDRESS FO	R CORRESPONDENCE	
The person identified below is hereby/has been apported of the applicant(s) before the competent International	inted to act on behalf I Authorities as:	agent common representative	
Name and address: (Family name followed by given name; The address must include postal code; 12288 Attorney TSUNODA Yos	and name of country.)	Telephone No. 03-3343-5821	
Shinjuku Bldg., 8-1, Nishishinjuku-ku, TOKYO 160-0023	shinjuku 1-chome,	Facsimile No. 03-3348-2746	
Silling und - Ru, TORTO 100-0023	UAFAN	Teleprinter No.	
		Agent's registration No. with the Office	
Address for correspondence: Mark this chec space above is used instead to indicate a specific	k-box where no agent or common all address to which correspondence	epresentative is/has been appointed and the e should be sent.	

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)			
If none of the following sub-boxes is used, this sheet should not	be included in the req	ruest.	
Name and address: (Family name followed by given name; for a legal entity. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence of the MATSUI Eriko c/o SONY CORPORATION 7-35, Kitashinagawa 6-chome, Shinagawa-ku, TOKYO 141-0001 State (that is, country) of nationality: JAPAN	e address indicated in this is is indicated below.)		
	 Status =====	JAPAN	
This person is applicant all designated all designated for the purposes of: States all designated the United States	States except ates of America	the United States the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence HARNACK Oliver c/o SONY INTERNATIONAL (EUROPE) G.I Hedelfinger Str. 61, Stuttgart, GEI	e address indicated in this e is indicated below.)	This person is: applicant only V applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office	
State (that is, country) of nationality: GERMANY	State (that is, country	of residence: GERMANY	
This person is applicant all designated for the purposes of:	d States except ates of America	the United States of America only the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name; for a legal entitude address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State	ne address indicated in this ce is indicated below.)	This person is: applicant only y applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office	
State (that is, country) of nationality: JAPAN	State (that is, country	y) of residence: GERMANY	
	d States except tates of America	the United States of America only the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of country. The country of t Box is the applicant's State (that is, country) of residence if no State of resident YASUDA Akio C/O SONY INTERNATIONAL (EUROPE) G Hedelfinger Str. 61. Stuttgart, Gi	he address indicated in this ce is indicated below.) .m.b.H.	This person is: applicant only V applicant and inventor inventor only (If this check-bax is marked, do not fill in below.) Applicant's registration No. with the Office	
State (that is, country) of nationality: JAPAN	State (that is, country) of residence: GERMANY	
This person is applicant all designated all designated	ed States except States of America	the United States the States indicated in the Supplemental Box	
Further applicants and/or (further) inventors are indicated	on another continuation	ı sheet.	

Sheet No. . . . 3

Box No.	V DESIGNATION OF STATES	Mark the applicable check-boxes below; at least one must be marked.	
The follo	wing designations are hereby made u	der Rule 4.9(a):	
	l Patent		
	ARIPO Patent: GH Ghana, GM SL Sierra Leone, SZ Swaziland, TZ State which is a Contracting State of	Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, United Republic of Tanzania, UG Uganda, ZM Zambia, ZW Zimbabwe, and any other the Harare Protocol and of the PCT (if other kind of protection or treatment desired,	
Ŭ ea		Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, n, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian	
V EP	Republic, DE Germany, DK Denma HU Hungary, IE Ireland, IT Italy, L	Selgium, BG Bulgaria, CH & LI Switzerland and Liechtenstein, CY Cyprus, CZ Czech rk, EE Estonia, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, U Luxembourg, MC Monaco, NL Netherlands, PT Portugal, RO Romania, SE Sweden, ry, and any other State which is a Contracting State of the European Patent Convention	
OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GQ Equatorial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)			
		or treatment desired, specify on dotted line):	
		☑ HR Croatia	
		☑ HU Hungary	
M AL	Albania	☑ ID Indonesia ☑ PH Philippines	
MA M	Armenia	☑ IL Israel ☑ PL Poland	
		□VIN India	
IVI AU	Australia	□VIS Iceland □VI RO Romania	
W AZ	Azerbaijan	☐ JP Japan	
1 —		TWEE Kenya	
		WKG Kyrgyzstan	
		□ KP Democratic People's Republic □ SD Sudan	
₩ BR	Brazil	of Korea	
₩ BY	Belarus	□ KR Republic of Korea	
1 <u>-</u>		₩ KZ Kazakhstan	
	Canada	LC Saint Lucia LySL Sierra Leone	
	& LI Switzerland and Liechtenstein		
√ CN	China	☐ LR Liberia ☐ TJ Tajikistan	
		LS Lesotho	
	Costa Rica		
	J Cuba		
☐ CZ	Czech Republic	LV Latvia	
D DE	Germany	MA Morocco	
D DE	C Denmark	MD Republic of Moldova	
	M Dominica	🖸 UA Ukraine	
□ D2	Z Algeria	☑ MG Madagascar	
Ŭ EC	Ecuador	MK The former Yugoslav Republic of W US United States of America	
	Estonia		
☑ ES	S Spain	☑ MN Mongolia	
□ FI	Finland	MWMalawi	
Ŭ G	B United Kingdom	MX Mexico	
12d G	D Grenada	MZ Mozambique	
☑ G	E Georgia	NI Nicaragua	
	H Ghana	NO Norway 🔯 ZM Zambia	
_	M Gambia	☑ NZ New Zealand	
Check	k-boxes below reserved for designatin	States which have become party to the PCT after issuance of this sheet:	
Precs	autionary Designation Statement: I	addition to the designations made above, the applicant also makes under Rule 4.9(b) a	
other	other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being		

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Kule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

Supplemental Box If the Supplemental Box is not used, this sheet should not be included in the request.

- If, in any of the Boxes, except Boxes Nos. VIII(i) to (v) for which a special continuation box is provided, the space is insufficient to furnish all the information: in such case, write "Continuation of Box No..." (Indicate the number of the Box) and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in particular:
 - (i) if more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available; in such case, write "Continuation of Bax No. III" and indicate for each additional person the same type of information as required in Bax No. III. The country of the address indicated in this Bax is the applicant's State (that is, country) of residence if no State of residence is indicated below;
 - (ii) if, in Box No. II or in any of the sub-baxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. III" or "Continuation of Box No. III" or "Continuation of Box No. III" and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
 - iii) if, in Bax No. II or in any of the sub-baxes of Bax No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Bax No. II" or "Continuation of Bax No. II" or "Continuation of Bax No. II" and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;
 - (iv) if, in addition to the agent(s) indicated in Bax No. IV, there are further agents: in such case, write "Continuation of Bax No. IV" and indicate for each further agent the same type of information as required in Bax No. IV;
 - (v) if, in Box No. V, the name of any State (or OAPI) is accompanied by the indication "patent of addition," or "certificate of addition," or if, in Box No. V, the name of the United States of America is accompanied by an indication "continuation" or "continuation-in-part": in such case, write "Continuation of Box No. V" and the name of each State involved (or OAPI), and after the name of each such State (or OAPI), the number of the parent title or parent application and the date of grant of the parent title or filing of the parent application;
 - (vi) if, in Box No. VI, there are more than five earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI.
 - 2. If, with regard to the precautionary designation statement contained in Box No. V, the applicant wishes to exclude any State(s) from the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the name or two-letter code of each State so excluded.

[Continuation of Box No. IV]
11351 Attorney ISOYAMA Hironobu
Shinjuku Bldg., 8-1, Nishishinjuku 1-chome,
Shinjuku-ku, TOKYO 160-0023 JAPAN

Telephone No. 03-3343-5821 Facsimile No. 03-3348-2746

Sheet No. 5

ox No. VI PRIORITY C	LAIM			
The priority of the following of	earlier application(s) is hereb	oy claimed:		
Filing date	Number	V	Where earlier application	is:
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office
tem (1)				
5.12.02	P2002-373973	JAPAN		
tem (2)				
item (3)				
(-)				
item (4)				
item (5)				
Further priority claims	are indicated in the Supplem	nental Box.	1	
Box No. VII INTERNA Choice of International Seinternational search, indicate ISA / JP	earching Authority (ISA) (is to the Authority chosen; the to the authority chosen; the to thority):	Organization for which that UTHORITY if two or more International wo-letter code may be used to that search (if an earlier	l earlier application was	re competent to carry out the
Box No. VIII DECLARA				
The following declaration check-boxes below and ind	ns are contained in Boxes No icate in the right column the r	os. VIII (i) to (v) (mark th number of each type of dec	e applicable laration):	Number of declarations
Box No. VIII (i)	Declaration as to the ide	entity of the inventor		:
Box No. VIII (ii)	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent :		:	
Box No. VIII (iii)	Declaration as to the addate, to claim the prior	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application :		
Box No. VIII (iv)	Declaration of inventor United States of Ameri	rship (only for the purpose ica)	es of the designation of the	be :
Box No. VIII (v)	Declaration as to non-p	prejudicial disclosures or e	exceptions to lack of nov	elty :

Box No. IX CHECK LIST; LANGUAGE OF FILING				
This international application contains: (a) in paper form, the following number of	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):	Number of items		
sheets:	1. \(\sqrt{1}\) fee calculation sheet	:1		
request (including declaration sheets) : 6	2. original separate power of attorney	: '		
description (excluding	3. original general power of attorney	:		
sequence listings and/or tables related thereto) : 32	4. copy of general power of attorney; reference number,			
claims : 3	if any:	:2		
abstract : 1	5. statement explaining lack of signature	:		
drawings : 16	6. priority document(s) identified in Box No. VI as item(s):			
Sub-total number of sheets: 58 sequence listings:	7. Translation of international application into (language):			
tables related thereto : (for both, actual number of	8. separate indications concerning deposited microorgani	sm :		
sheets if filed in paper form, whether or not also filed in	9. sequence listings in computer readable form (indicate type and number of carriers)	·		
computer readable form; see (c) below)	(i) Copy submitted for the purposes of international sea	rch under		
Total number of sheets :	Rule 13ter only (and not as part of the international (ii) (iii) (only where check-box (b)(i) or (c)(i) is marked in left additional copies including, where applicable, the c	column)		
(b) only in computer readable form (Section 801(a)(i))	purposes of international search under Rule 13ter (iii) together with relevant statement as to the identity of	;		
(i) ☐ sequence listings (ii) ☐ tables related thereto	copies with the sequence listings mentioned in left of	column :		
(c) also in computer readable form (Section 801(a)(ii))	10. tables in computer readable form related to sequence lis			
(i) ☐ sequence listings (ii) ☐ tables related thereto	(i) ☐ copy submitted for the purposes of international see Section 802(b-quater) only (and not as part of the in	rch under iternational		
Type and number of carriers (diskette, (ii) (only where check-box (b)(ii) or (c)(ii) is marked in left column)				
CD-ROM, CD-R or other) on which are additional copies including, where applicable, the copy for the contained the purposes of international search under Section 802(b-quater):				
sequence listings:	(iii) together with relevant statement as to the identity of copies with the tables mentioned in left column	f the copy or		
tables related thereto:	11. \(\square\) other (specify):	· · · · · · · · · · · · · · · · · · ·		
(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)	11. 🗀 Smar (apacegy))			
Figure of the drawings which should accompany the abstract: 1 Language of filing of the international application: Japanese				
Box No. X SIGNATURE OF APPLICAN	T. AGENT OR COMMON REPRESENTATIVE			
Next to each signature, indicate the name of the person st	gning and the capacity in which the person signs (if such capacity is not obvious	from reading the request).		
mgyNoD2 veekiewe(Seel)				
TSUNODA Yoshisue(Seal)				
TSO	YAMA Hironobu(Seal)	•		
1. Date of actual receipt of the purported 2. Drawings:				
Date of actual receipt of the purported international application:		Z. Diawnigs.		
received:				
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:				
4. Date of timely receipt of the required corrections under PCT Article 11(2):				
5. International Searching Authority (if two or more are competent): ISA / JP 6. Transmittal of search copy delayed until search fee is paid				
For International Bureau use only				
Date of receipt of the record copy by the International Bureau:				